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Oat Variety Test

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Abstract
Thirty-three varieties were included in the 2000 oat test at Crawfordsville. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted March 15 at a rate of 3 bushels/acre. The oat plots were harvested on July 20.

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Oat Variety Test

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Materials and Methods

Thirty-three varieties were included in the 2000 oat test at Crawfordsville. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted March 15 at a rate of 3 bushels/acre. The oat plots were harvested on July 20.

Results

Average oat grain yield at Crawfordsville in 2000 was 93 bushels/acre, 8 bushels/acre more than the average yield in 1999 (Table 1). Based on three years of data (1998 - 2000), Blaze was the highest yielding variety. Jerry had the highest test weight among hulled (normal) oat varieties in 2000. Paul is a hull-less variety and thus had a higher test weight.

Additional information on oat and barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests - Oat and Barley, 1997-2000," which is available from county extension offices (Pm-1645).

Table 1. Performance of oat entries at Crawfordsville from 1998 to 2000.

Entry	Yield 1998	Yield 1999	Yield 2000	3-yr avg	Heading date[a]	Lodging score[b]	Straw yield[c]	Test wt.[d]
	bushels/acre						ton/acre	lb/bu
Belle	33	98	89	73	6/06	28	3.7	33.4
Blaze	68	126	112	102	6/02	54	3.2	33.7
Brawn	58	123	112	98	6/02	39	3.3	31.5
Burton	55	88	99	81	6/02	43	3.6	31.4
Chaps	72	107	117	98	6/01	43	3.0	32.0
Cherokee	25	44	63	44	5/29	38	3.3	31.1
Classic	61	127	103	97	6/01	42	3.1	33.0
Dane	71	132	93	99	5/26	18	3.2	29.8
Don	55	104	87	82	5/30	58	3.3	34.3
Ebeltoft	.	122	121	122	6/10	35	3.7	31.5
Gem	60	113	104	92	6/05	28	3.3	32.4
IN09201	74	126	108	103	5/30	42	3.1	32.6
Ida	65	107	113	95	6/04	47	3.1	31.7
Jay	62	133	110	102	6/01	35	4.1	34.1
Jerry	46	105	105	85	6/03	49	3.3	35.0
Jim	74	116	106	98	5/31	48	4.0	33.4
Jud	63	122	112	99	6/06	35	3.8	33.1
Killdeer	.	106	100	103	6/06	37	3.7	32.3
Loyal	.	90	103	97	6/07	27	3.4	33.1
Milton	44	107	102	84	6/05	45	3.3	31.7
Multiline E77	25	51	54	43	5/28	48	2.9	31.5
Ogle	69	130	106	101	6/01	46	3.9	30.9
Paul	16	55	73	48	6/09	27	3.7	40.9
Richard	35	78	100	71	6/03	28	3.6	31.4
Richland	22	36	52	37	6/01	56	2.5	29.5
Riser	60	96	98	85	5/24	65	3.1	33.5
Rodeo	64	113	116	98	6/04	38	3.3	31.3
Sheldon	58	108	86	84	5/30	75	3.2	32.4
Starter	52	108	83	81	5/30	65	3.0	33.7
Troy	45	103	105	84	6/09	79	3.6	32.2
Valley	27	74	92	64	6/06	60	3.8	33.3
Vista	44	88	102	78	6/04	44	3.2	32.7
Youngs	.	85	93	73	6/09	36	3.6	31.3
Mean	53	103	98	85	6/03	43	3.4	32.6
LSD(0.05)[e]	10	20	11	16	1	26	0.7	1.3

[a] Heading date at Ames, 2000
[b] Lodging - 1999 average from 5 sites.
[c] Straw yield - 2000 average from 5 sites.
[d] Test weight - 2000 average from 5 sites.
[e] LSD = Least significant difference. When entries differ by an amount equal to one LSD or more, they are considered to be in different classes with 95% certainty.